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EXAMINER	
YIGDALL, MICHAEL J	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/658,593

Applicant(s)

ROSENTHAL ET AL.

Examiner

Michael J. Yigdall

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This Office action is responsive to Applicant's submission filed on April 19, 2007.

Claims 1-19 are pending.

Response to Amendment

2. The objection to the specification has been withdrawn in view of Applicant's amendment.
3. The rejection of claims 1-11 under 35 U.S.C. 101 has been withdrawn in view of Applicant's amendment.

Response to Arguments

4. Applicant requests that the provisional obviousness-type double patenting rejection be held in abeyance (remarks, page 15, first paragraph). As Applicant notes, MPEP § 804 states that the rejection should continue to be made unless it is the only rejection remaining in the application (remarks, page 15, second paragraph). Accordingly, the provisional obviousness-type double patenting rejection is maintained below.
5. Applicant's arguments with respect to the rejection of claims 1, 3-8, 10-12, 14-16, 18 and 19 under 35 U.S.C. 102(e) and the rejection of claims 2, 9, 13 and 17 under 35 U.S.C. 103(a) (remarks, pages 16-18) have been fully considered but they are not persuasive.

Applicant contends that Gungabeesoon does not teach or suggest that the converted user interface pages 520 "[are] stored as metadata in a metadata repository" or that the converted user

interface pages 520 are “developed by a development tool based on a metamodel that defines metamodel objects” (remarks, page 17, top).

However, the examiner disagrees with Applicant’s characterizations. Gungabeesoon teaches that the converted user interface pages 520 are generated in a pre-runtime conversion step 510 (see, for example, FIG. 5 and column 8, lines 47-54). The JavaBean data objects are also generated as Java class definitions during the conversion step (see, for example, column 9, lines 54-60). To one of ordinary skill in the art, it is reasonable to consider the converted user interface pages 520 and the Java class definitions as “metadata” because, for example, the pages and the JavaBean data objects include “variable data fields” and “data field definitions” (column 9, lines 54-60) that are not populated with actual data until a servlet does so dynamically at runtime (see, for example, column 9, lines 41-48). In other words, the converted user interface pages 520 function as metadata for the actual data provided at runtime. The converted user interface pages 520 are necessarily stored in some form of “repository” so as to allow the servlet instance 610 to retrieve them and send them to the network user agent 570 (see, for example, FIG. 6 and column 11, lines 2-7). Thus, a reasonable interpretation of the claim language is that the converted user interface pages 520 of Gungabeesoon “[are] stored as metadata in a metadata repository.” Applicant’s specification does not appear to provide any clear and explicit definition of a “metadata repository” contrary to this interpretation.

Furthermore, Gungabeesoon teaches that the converted user interface pages 520 are based on a programming model that includes HTML elements and JavaScript elements, which are reasonably considered “view” elements (e.g., for presentation) and “controller” elements (e.g., for input validation), respectively (see, for example, column 8, line 67 to column 9, line 7).

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Likewise, the programming model includes JavaBean data objects that are reasonably considered “model” elements (see, for example, column 9, line 54 to column 19, line 2). Thus, to one of ordinary skill in the art, it is reasonable to consider the programming model on which the converted user interface pages 520 and the JavaBean data objects are based as a “metamodel” that defines elements such as models, views and controllers. Indeed, Applicant’s specification describes such models, views and controllers as “metamodel objects” (specification, page 8, lines 18-19). Accordingly, a reasonable interpretation of the claim language, consistent with Applicant’s specification, is that the tool in Gungabeesoon that generates or develops the converted user interface pages 520 does so in such a manner that the pages are “developed by a development tool based on a metamodel that defines metamodel objects.”

Applicant similarly contends that Doppelhammer does not teach or suggest “the converted design-time representation is stored as metadata in a metadata repository, the converted design-time representation having been developed by a development tool based on a metamodel that defines metamodel objects” (remarks, page 18, first paragraph).

However, Gungabeesoon teaches these elements, as reasoned above. The examiner respectfully submits that a *prima facie* case of obviousness has been established.

Double Patenting

6. The non-statutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A non-statutory obviousness-type double patenting rejection

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is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1, 3, 6, 7, 12, 14, 16 and 18 are provisionally rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 6, 10, 12 and 14 of copending Application No. 10/658,684.

Although the conflicting claims are not identical, they are not patentably distinct from each other because they recite analogous subject matter, as set forth in the Office action mailed on February 9, 2007.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1, 3-8, 10-12, 14-16, 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 7,007,278 to Gungabeesoon (art of record, “Gungabeesoon”).

With respect to claim 1 (currently amended), Gungabeesoon discloses a computer program product, tangibly embodied in a machine-readable storage device, the computer program product being operable to cause data processing apparatus to perform operations (see, for example, column 7, lines 2-19) comprising:

receiving run-time code for an application (see, for example, column 11, lines 2-7, which shows receiving run-time code for an application in the form of a JavaServer Page, and column 10, lines 42-49, which shows that the run-time code is for a legacy application), the run-time code being generated from a converted design-time representation of the application (see, for example, column 9, lines 14-17, which shows that the run-time code is generated from converted design-time representations of the application in the form of user interface pages), wherein:

the converted design-time representation of the application is generated from an original design-time representation of the application developed for use in a first run-time environment for executing applications having been developed in a first design-time environment (see, for example, column 8, lines 44-54, which shows that the converted design-time representations are generated from original design-time representations of the application in the form of screen definitions, and column 7, lines 50-56, which shows a first run-time environment for executing applications developed in a first design-time environment), the converted design-time representation is stored as metadata in a metadata repository (see, for example, column 9, lines 41-48 and 54-60, which shows that the converted design-time representation is metadata for application data inserted at run-time, and column 11, lines 2-7, which further shows that the converted design-time representation is stored in a repository for retrieval at run-time), the converted design-time representation having been developed by a development tool based on a metamodel that defines metamodel objects (see, for example, column 8, line 67 to column 9, line 7, and column 9, line 54 to column 19, line 2, which shows that the converted design-time representation is developed based on a metamodel that defines metamodel objects such as HTML code, JavaScript code and JavaBean data objects), the first design-time environment using a first programming model comprising one or more first model elements including screens and processing logic for each screen (see, for example, column 8, lines 12-29, which shows that the first design-time environment uses a programming model comprising screens and processing logic), the original design-time representation including one or more application screens and original processing logic for each application screen (see, for example, column 8, lines 44-47, which shows that the original design-time representation includes one or more application

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screens), the original processing logic including a call to a run-time module in the first run-time environment (see, for example, column 8, lines 29-32, which shows that the original processing logic includes calls to run-time modules in the first run-time environment); and

the converted design-time representation of the application is for use in a second run-time environment for executing applications having been developed in a second design-time environment (see, for example, column 9, lines 41-48, which shows a second run-time environment for executing applications developed in a second design-time environment), the second design-time environment using a second programming model comprising one or more second model elements including models, views, and controllers (see, for example, column 8, line 67 to column 9, line 7, which shows that the second design-time environment uses a programming model that comprises views in the form of HTML code and controllers in the form of JavaScript code, and column 9, line 54 to column 10, line 2, which shows that the programming model comprises models in the form of JavaBean data objects), the converted design-time representation including one or more application views based on the one or more application screens, and converted processing logic based on the original processing logic, the converted processing logic being capable of being executed in the second run-time environment (see, for example, column 10, lines 31-36, which shows that the converted design-time representation includes one or more application views and processing logic based on the original application screens and processing logic, and column 10, lines 42-49, which shows that the converted processing logic is executable in the second run-time environment); and

executing the run-time code in the second run-time environment using an adapter operable to interface with the run-time module in the first run-time environment (see, for

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example, column 11, lines 8-22, which shows executing the run-time code in the second run-time environment and interfacing with the first run-time environment, and column 10, lines 3-17, which shows that the interface is an adapter in the form of a Publish-to-Web component).

With respect to claim 3 (original), the rejection of claim 1 is incorporated, and Gungabeesoon further discloses that executing the run-time code comprises using the adapter to perform a function not performed by the original processing logic (see, for example, column 9, lines 17-27, which shows that executing the run-time code comprises using the adapter to perform functions that the original processing logic does not perform).

With respect to claim 4 (original), the rejection of claim 3 is incorporated, and Gungabeesoon further discloses that the function comprises input validation (see, for example, column 8, line 67 to column 9, line 7, which shows performing input validation).

With respect to claim 5 (original), the rejection of claim 3 is incorporated, and Gungabeesoon further discloses that the function comprises input formatting (see, for example, column 9, lines 28-31, which shows performing input formatting).

With respect to claim 6 (original), the rejection of claim 1 is incorporated, and Gungabeesoon further discloses that:

the original design-time representation of the application comprises original state control logic (see, for example, column 7, lines 60-66, which shows that the application comprises original state control logic; and

the converted design-time representation of the application comprises converted state control logic based on the original state control logic, the converted state control logic capable of being executed by the adapter (see, for example, column 8, lines 5-11, which shows that the converted design-time representation comprises converted state control logic, and column 11, lines 8-22, which shows that the adapter executes the converted state control logic)..

With respect to claim 7 (original), the rejection of claim 1 is incorporated, and Gungabeesoon further discloses that:

the original design-time representation of the application comprises one or more controls from a first set of controls (see, for example, column 8, lines 54-57, which shows that the original design-time representation comprises one or more user interface elements or controls);

the converted design-time representation of the application comprises one or more controls from a second set of controls, each control in the converted design-time representation of the application corresponding to a control in the original design-time representation of the application (see, for example, column 9, lines 54-60, which shows that the converted design-time representation comprises one or more controls corresponding to the controls in the original design-time representation); and

executing the run-time code comprises rendering the controls in the converted design-time representation of the application (see, for example, column 8, lines 44-54, which shows rendering the controls).

With respect to claim 8 (currently amended), Gungabeesoon discloses a computer program product, tangibly embodied in a machine-readable storage device, the computer

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program product being operable to cause data processing apparatus to perform operations (see, for example, column 7, lines 2-19) comprising:

receiving run-time code for an application (see, for example, column 11, lines 49-55, which shows run-time code for an application comprising network application data and legacy application data, and see, for example, column 10, lines 37-42, and column 11, lines 2-7, which shows receiving such run-time code from a servlet instance);

determining whether the run-time code was generated from a native design-time representation of the application or from a converted design-time representation of the application (see, for example, column 10, lines 42-49, and column 11, lines 8-22, which shows the servlet instance responding in different ways depending on whether the run-time code comprises network application data or legacy application data, respectively).

Here, run-time code comprising network application data is considered run-time code that was generated from a native design-time representation of the application, and run-time code comprising legacy application data is considered run-time code that was generated from a converted design-time representation of the application. The servlet instance or some other related component in Gungabeesoon inherently determines whether the run-time code was generated from a native design-time representation of the application or from a converted design-time representation of the application, so as to respond in the appropriate manner. The native and converted design-time representations are further addressed below.

Gungabeesoon further discloses that:

the native design-time representation of the application is for use in a first run-time environment for executing applications having been developed in a first design-time

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environment (see, for example, column 9, lines 41-48, which shows a first run-time environment for executing applications developed in a first design-time environment), the first design-time environment using a first programming model comprising one or more first model elements including models, views, and controllers (see, for example, column 8, line 67 to column 9, line 7, which shows that the first design-time environment uses a programming model that comprises views in the form of HTML code and controllers in the form of JavaScript code, and column 9, line 54 to column 10, line 2, which shows that the programming model comprises models in the form of JavaBean data objects); and

the converted design-time representation of the application is generated from an original design-time representation of the application developed for use in a second run-time environment for executing applications having been developed in a second design-time environment (see, for example, column 8, lines 44-54, which shows that the converted design-time representations are generated from original design-time representations of the application in the form of screen definitions, and column 7, lines 50-56, which shows a second run-time environment for executing applications developed in a second design-time environment), the converted design-time representation is stored as metadata in a metadata repository (see, for example, column 9, lines 41-48 and 54-60, which shows that the converted design-time representation is metadata for application data inserted at run-time, and column 11, lines 2-7, which further shows that the converted design-time representation is stored in a repository for retrieval at run-time), the converted design-time representation having been developed by a development tool based on a metamodel that defines metamodel objects (see, for example, column 8, line 67 to column 9, line 7, and column 9, line 54 to column 19, line 2, which shows that the converted design-time

representation is developed based on a metamodel that defines metamodel objects such as HTML code, JavaScript code and JavaBean data objects), the second design-time environment using a second programming model comprising one or more second model elements including screens and processing logic for each screen (see, for example, column 8, lines 12-29, which shows that the second design-time environment uses a programming model comprising screens and processing logic), the original design-time representation including one or more application screens and original processing logic for each application screen (see, for example, column 8, lines 44-47, which shows that the original design-time representation includes one or more application screens), the converted design-time representation including one or more application views based on the one or more application screens, and converted processing logic based on the original processing logic, the converted processing logic capable of being executed in the second run-time environment (see, for example, column 10, lines 31-36, which shows that the converted design-time representation includes one or more application views and processing logic based on the original application screens and processing logic, and column 10, lines 42-49, which shows that the converted processing logic is executable in the second run-time environment); and

if the run-time code was generated from the native design-time representation, execute the run-time code in the first run-time environment using a set of run-time modules in the first run-time environment (see, for example, column 10, lines 42-49, which shows executing the run-time code generated from the native design-time representation in the first run-time environment using run-time modules such as the servlet instance in the first run-time environment); and

if the run-time code was generated from the converted design-time representation, execute the run-time code in the first run-time environment using a set of run-time modules in

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the second run-time environment (see, for example, column 11, lines 8-22, which shows executing the run-time code generated from the converted design-time representation in the first run-time environment using run-time modules such as the legacy application in the second run-time environment).

With respect to claim 10 (original), the rejection of claim 8 is incorporated, and Gungabeesoon further discloses that executing the run-time code using the set of run-time modules in the second run-time environment comprises using an adapter in the first run-time environment to interface with the set of run-time modules in the second run-time environment (see, for example, column 10, lines 3-17, which shows interfacing with the second run-time environment using an adapter in the form of a Publish-to-Web component in the first run-time environment).

With respect to claim 11 (original), the rejection of claim 8 is incorporated, and Gungabeesoon further discloses that:

executing the run-time code using the set of run-time modules in the first run-time environment comprises using a first sequence of process steps (see, for example, column 10, lines 42-49, which shows a first sequence of process steps that comprises, for example, creating a socket and spawning a thread); and

executing the run-time code using the set of run-time modules in the second run-time environment comprises using a second sequence of process steps (see, for example, column 11, lines 8-22, which shows a second sequence of process steps that comprises, for example, forwarding data to the socket).

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With respect to claims 12 (currently amended), 14 and 15 (original), the claims are directed to an apparatus that corresponds to the computer program product of claims 1, 6 and 3, respectively (see the rejection of claims 1, 6 and 3 above).

With respect to claims 16 (currently amended), 18 and 19 (original), the claims are directed to a method that corresponds to the computer program product of claims 1, 6 and 3, respectively (see the rejection of claims 1, 6 and 3 above).

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 2, 9, 13 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gungabeesoon, as applied to claims 1, 8, 12 and 16 above, respectively, in view of "Database Performance in the Real World: TPC-D and SAP R/3" by Doppelhammer et al. (art of record, "Doppelhammer").

With respect to claim 2 (original), the rejection of claim 1 is incorporated. Gungabeesoon discloses that the first programming model is a legacy programming model and the second programming model is a Web-based programming model (see, for example, column 8, lines 5-11), but does not expressly disclose that the first programming model is the SAP

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Dynpro programming model and the second programming model is the SAP Web Dynpro programming model.

However, Doppelhammer teaches the SAP Dynpro programming model comprising one or more model elements including screens and processing logic for each screen (see, for example, page 125, section 2.3, first paragraph).

Moreover, Gungabeesoon suggests that such programming models are supported (see, for example, column 11, lines 23-27), and further discloses that converting applications from the legacy programming model to the Web-based programming model enables one to access the applications across the network and take advantage of Web-based technology without having to make code changes to the applications (see, for example, column 11, lines 42-55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the teachings of Gungabeesoon in cases where the first programming model is the SAP Dynpro programming model and the second programming model is the SAP Web Dynpro programming model, so as to take advantage of Web-based technology without having to make code changes to the applications.

With respect to claim 9 (original), the rejection of claim 8 is incorporated.

Gungabeesoon discloses that the first programming model is a Web-based programming model and the second programming model is a legacy programming model (see, for example, column 8, lines 5-11), but does not expressly disclose that the first programming model is the SAP Web Dynpro programming model and the second programming model is the SAP Dynpro programming model.

However, Doppelhammer teaches the SAP Dynpro programming model comprising one or more model elements including screens and processing logic for each screen (see, for example, page 125, section 2.3, first paragraph).

Moreover, Gungabeesoon suggests that such programming models are supported (see, for example, column 11, lines 23-27), and further discloses that converting applications from the legacy programming model to the Web-based programming model enables one to access the applications across the network and take advantage of Web-based technology without having to make code changes to the applications (see, for example, column 11, lines 42-55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the teachings of Gungabeesoon in cases where the first programming model is the SAP Dynpro programming model and the second programming model is the SAP Web Dynpro programming model, so as to take advantage of Web-based technology without having to make code changes to the applications.

With respect to claim 13 (original), the claim is directed to an apparatus that corresponds to the computer program product of claim 2 (see the rejection of claim 2 above).

With respect to claim 17 (original), the claim is directed to a method that corresponds to the computer program product of claim 2 (see the rejection of claim 2 above).

Conclusion

12. Applicant's amendment necessitated any new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Yigdall whose telephone number is (571) 272-3707. The examiner can normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Michael J. Yigdall
Examiner
Art Unit 2192

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SUPERVISORY PATENT EXAMINER